

Fabrication and Packaging of Suspended Microchannel Detectors

Abstract of the Disclosure

An apparatus for detecting an analyte in solution that has a suspended beam containing at least one microfluidic channel containing a capture ligand that bonds to or reacts with an analyte. The apparatus also includes at least one detector for measuring a change in the beam upon binding or reaction of the analyte. A method of making the suspended microfluidic channels is disclosed, as well as, a method of integrating the microfluidic device with conventional microfluidics having larger sample fluid channels.